## AMENDMENTS TO THE CLAIMS

1. (Withdrawn) A process for forming a thin film comprising a metal, comprising:

exposing a heated substrate alternately to the vapor of one or more volatile metal amidinate compounds of claim 18, and then to a reducing gas or vapor, to form a metal coating on the surface of the substrate.

- 2. (Withdrawn) The process of claim 1, wherein said reducing gas is hydrogen.
- (Withdrawn) A process for forming a thin film comprising a metal nitride, comprising:

exposing a heated substrate alternately to the vapor of one or more volatile metal amidinate compounds of claim 18, and then to a nitrogen-containing gas or vapor, to form a metal nitride coating on the surface of the substrate.

- (Withdrawn) The process of claim 3, wherein the nitrogen-containing gas is ammonia.
- (Withdrawn) A process for forming a thin film comprising a metal oxide, comprising:

exposing a heated substrate alternately to the vapor of one or more volatile metal amidinate compounds of claim 18, and then to an oxygen-containing gas or vapor, to form a metal oxide coating on the surface of the substrate. Application No. 10/534,687 Amendment dated December 12, 2008 Reply to Office Action of November 12, 2008

 (Withdrawn) The process of claim 5, wherein the oxygen-containing vapor is water vapor.

## 7 - 17. (Canceled)

(Currently Amended) A composition of matter that is a volatile metal(III)
 tris(amidinate) represented by the general formula

$$\mathbb{R}^{2^{n}} \xrightarrow{\mathbb{N}^{2^{n}}} \mathbb{R}^{2^{2}}$$

or oligomers thereof, wherein the metal [[M]] M" is selected from lanthanum, praseodymium and the other lanthanide metals, yttrium, scandium, titanium, vanadium, chromium, iron, ruthenium, cobalt, rhodium, iridium, and bismuth, and wherein R<sup>1</sup>, R<sup>1</sup>, R<sup>1</sup>, R<sup>2</sup>, and R<sup>2</sup>, and R<sup>2</sup> independently represent alkyl groups, alkenyl groups, alkynyl groups, trialkylsilyl groups, or other non-metal atoms or groups that are not aryl, and R<sup>2</sup> and R<sup>2</sup>, R<sup>3</sup>, R<sup>3</sup>, and R<sup>3</sup> independently represent hydrogen, alkyl groups, alkenyl groups, alkynyl groups, trialkylsilyl groups, or other non-metal atoms or groups that are not aryl.

 (Original) A composition of matter as in claim 18 having the chemical name lanthanum(III) tris(N,N'-diisopropylacetamidinate) and structural formula

 (Withdrawn) A process for forming a thin film comprising a transition metal or a lanthanide metal, the process comprising:

exposing one or more volatile metal amidinate compounds of claim 18 to a substrate.

- 21. (Withdrawn) The process of claim 20, further comprising:
  - exposing a reducing gas to the substrate.
- (Withdrawn) The process of claim 21, wherein the reducing gas or vapor is hydrogen.
- (Withdrawn) The process of claim 20, wherein the thin film comprises a metal nitride.
  - 24. (Withdrawn) The process of claim 23, further comprising:

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exposing a gas comprising nitrogen to the substrate.

- (Withdrawn) The process of claim 24, wherein the gas comprising nitrogen is ammonia
- (Withdrawn) The process of claim 20, wherein the thin film comprises a metal oxide.
  - (Withdrawn) The process of claim 26, further comprising:
    exposing a gas comprising oxygen to the substrate.
- 28. (Withdrawn) The process of claim 27, wherein the gas comprising oxygen is water vapor.

## 29-43. (Canceled)

- 44. (Currently Amended) The composition of matter as claimed in claim 18, wherein [[R<sup>n</sup>]] R<sup>1</sup>, R<sup>1'</sup>, R<sup>1''</sup>, R<sup>2</sup>, R<sup>2''</sup>, R<sup>3</sup>, R<sup>3'</sup>, and R<sup>3''</sup> independently represent unsubstituted alkyl groups.
- 45. (Currently Amended) The composition of matter as claimed in claim 18, wherein [[R<sup>n</sup>]] R<sup>1</sup>, R<sup>1</sup>, R<sup>1</sup>, R<sup>2</sup>, R<sup>2</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>3</sup>, and R<sup>3</sup> independently represent alkyl groups substituted with fluorine or other non-metal atoms.